

Jimmy G D Hester

List of Publications by Year in descending order

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44
papers

1,149
citations

516710

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501196

28
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45
docs citations

45
times ranked

1112
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Ultra-Lightweight Multiband Rectenna on Paper for RF Energy Harvesting in the Next Generation LTE Bands. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 366-379.	4.6	181
2	A Novel Solar and Electromagnetic Energy Harvesting System With a 3-D Printed Package for Energy Efficient Internet-of-Things Wireless Sensors. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1831-1842.	4.6	140
3	Inkjet-Printed Flexible mm-Wave Van-Atta Reflectarrays: A Solution for Ultralong-Range Dense Multitag and Multisensing Chipless RFID Implementations for IoT Smart Skins. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4763-4773.	4.6	84
4	Additively Manufactured Nanotechnology and Origami-Enabled Flexible Microwave Electronics. Proceedings of the IEEE, 2015, 103, 583-606.	21.3	79
5	Ambient RF Energy Harvesting From a Two-Way Talk Radio for Flexible Wearable Wireless Sensor Devices Utilizing Inkjet Printing Technologies. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4533-4543.	4.6	69
6	5G as a wireless power grid. Scientific Reports, 2021, 11, 636.	3.3	52
7	A Scalable High-Gain and Large-Beamwidth mm-wave Harvesting Approach for 5G-powered IoT. , 2019, , .		43
8	Advances in Wirelessly Powered Backscatter Communications: From Antenna/RF Circuitry Design to Printed Flexible Electronics. Proceedings of the IEEE, 2022, 110, 171-192.	21.3	41
9	A Compact Source-Load Agnostic Flexible Rectenna Topology for IoT Devices. IEEE Transactions on Antennas and Propagation, 2020, 68, 2621-2629.	5.1	38
10	First Demonstration of 28 GHz and 39 GHz Transmission Lines and Antennas on Glass Substrates for 5G Modules. , 2017, , .		36
11	On-Body Long-Range Wireless Backscattering Sensing System Using Inkjet-/3-D-Printed Flexible Ambient RF Energy Harvesters Capable of Simultaneous DC and Harmonics Generation. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5389-5400.	4.6	32
12	Rotman Lens-Based Wide Angular Coverage and High-Gain Semipassive Architecture for Ultralong Range mm-Wave RFIDs. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 1943-1947.	4.0	31
13	Sensitivity enhancement of flexible gas sensors via conversion of inkjet-printed silver electrodes into porous gold counterparts. Scientific Reports, 2017, 7, 8988.	3.3	29
14	Millimeter-wave ink-jet printed RF energy harvester for next generation flexible electronics. , 2017, , .		29
15	A bio-enabled maximally mild layer-by-layer Kapton surface modification approach for the fabrication of all-inkjet-printed flexible electronic devices. Scientific Reports, 2016, 6, 39909.	3.3	28
16	Long-Range Wireless Interrogation of Passive Humidity Sensors Using Van-Atta Cross-Polarization Effect and Different Beam Scanning Techniques. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5345-5354.	4.6	28
17	RFID-Based Wireless Passive Sensors Utilizing Cork Materials. IEEE Sensors Journal, 2015, 15, 7242-7251.	4.7	25
18	A novel, facile, layer-by-layer substrate surface modification for the fabrication of all-inkjet-printed flexible electronic devices on Kapton. Journal of Materials Chemistry C, 2016, 4, 7052-7060.	5.5	23

#	ARTICLE	IF	CITATIONS
19	Nanotechnology-Empowered Flexible Printed Wireless Electronics: A Review of Various Applications of Printed Materials. IEEE Nanotechnology Magazine, 2019, 13, 18-29.	1.3	19
20	Printed Motes for IoT Wireless Networks: State of the Art, Challenges, and Outlooks. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1819-1830.	4.6	17
21	Miniaturized Millimeter Wave RFID Tag for Spatial Identification and Localization in Internet of Things Applications. , 2019, , .		14
22	Read/Interrogation Enhancement of Chipless RFIDs Using Machine Learning Techniques. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2272-2276.	4.0	13
23	A Wideband, Quasi-Isotropic, Kilometer-Range FM Energy Harvester for Perpetual IoT. IEEE Microwave and Wireless Components Letters, 2020, 30, 201-204.	3.2	12
24	Backscatter Communications. IEEE Journal of Microwaves, 2021, 1, 864-878.	6.5	12
25	Holography-Based Target Localization and Health Monitoring Technique Using UHF Tags Array. IEEE Internet of Things Journal, 2021, 8, 14719-14730.	8.7	10
26	Inkjet-printed substrate integrated waveguides (SIW) with "drill-less" vias on paper substrates. , 2016, , .		9
27	Ambient energy harvesting from a two-way talk radio for flexible wearable devices utilizing inkjet printing masking. , 2015, , .		6
28	5.8-GHz Low-Power Tunnel-Diode-Based Two-Way Repeater for Non-Line-of-Sight Interrogation of RFIDs and Wireless Sensor Networks. IEEE Microwave and Wireless Components Letters, 2021, 31, 794-797.	3.2	6
29	A fully autonomous ultra-low power hybrid RF/photovoltaic energy harvesting system with $\hat{\sim}25$ dBm sensitivity. , 2017, , .		5
30	Inkjet-/3D-/4D-printed autonomous wearable RF modules for biomonitoring, positioning and sensing applications. Proceedings of SPIE, 2017, , .	0.8	5
31	A novel additive-manufactured multiple-infill ultra-lightweight cavity-backed slot antenna for UWB applications. , 2017, , .		5
32	Novel Additively Manufactured Packaging Approaches for 5G/mm-Wave Wireless Modules. , 2019, , .		5
33	UHF lumped element model of a fully-inkjet-printed single-wall-carbon-nanotube-based inter-digitated electrodes breath sensor. , 2016, , .		4
34	Nanotechnology-Enabled Additively-Manufactured RF and Millimeter-wave Electronics. , 2018, , .		4
35	Additively Manufactured Inkjet-/3D-/4D-Printed Wireless Sensors Modules. International Journal of High Speed Electronics and Systems, 2018, 27, 1840012.	0.7	3
36	A Machine Learning Approach-based Chipless RFID System for Robust Detection in Real-world Implementations. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
37	A 5.8 GHz Fully-Tunnel-Diodes-Based 20 μ W, 88mV, and 48 dB-Gain Fully-Passive Backscattering RFID Tag. , 2020, , .		2
38	Energy Autonomous Two-Way Repeater System for Non-Line-of-Sight Interrogation in Next Generation Wireless Sensor Networks. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1779-1788.	4.6	2
39	V-band electronically reconfigurable metamaterial. Journal of Applied Physics, 2017, 121, 164902.	2.5	1
40	Inkjet-/3D-/4D-Printed Wireless Ultrabroadband Modules for IoT, Smarttag and Smart City Applications. International Journal of High Speed Electronics and Systems, 2019, 28, 1940016.	0.7	1
41	Optimizing Rotmen Lens Topologies for 5G Wireless Grids. , 2021, , .		1
42	Extending the Range of 5G Energy Transfer: Towards the Wireless Power Grid. , 2022, , .		1
43	A Winning Backscatter Modulator: A Quarter-Gram, Ultrahigh-Frequency RFID for On-Metal Operation. IEEE Microwave Magazine, 2020, 21, 96-100.	0.8	0
44	UHF Tags Array for Holographic Target Localization and Wireless Health Monitoring. , 2021, , .		0